

Appendix B
Dredge Manufacturers' Specifications

Channel/Water Body Designation **Sandy Creek**

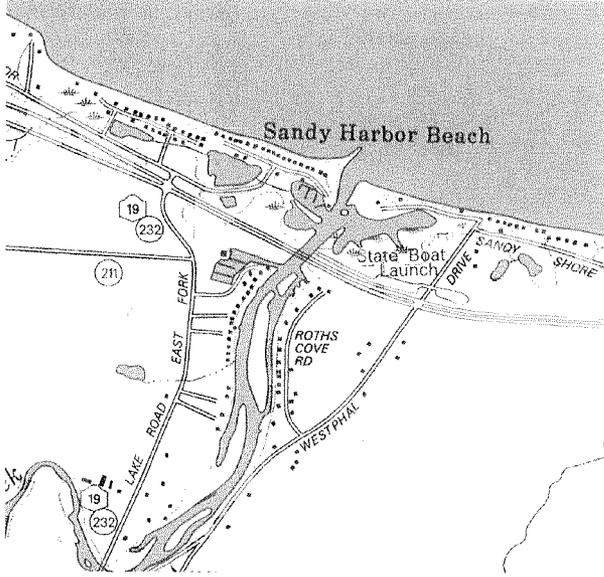
Latitude 43-21-00
Longitude 77-53-30
County Monroe
Town, City or Village Town of Hamlin

Total Slips 287

Total Launch Lanes 3

Type of Use

- Recreational Boating
- Fishing Access to Lake
- Sailboat Use ~40%



Maintained Private

By
Brockport Yacht Club



Notes on Use

- Slips are for small - medium size vessels
- State boat launch has 50 parking spaces
- Sailboats generally north of parkway bridge
- Clean Vessel Study air photo count = 138
- DEC/Sea Grant guide lists only 166 slips, including only 50 at BYC

Critical Desired Depth 7 feet

Critical Desired Bottom Elevation 237.5

Quantity (cu yd) 1,200

Anticipated Frequency 5 - 10 years

Sediment Condition

- hard packed sands

Testing Date 4/88

Sediment Quality

- clean by direct testing, grain size and chemical tests done in 1988
- Analysis indicates 97.4% sand, 2.6% fines
- Tests for PCB's, Hg, and pesticides/herbicides all had no detection

Federal Navigation Project No

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Brockport Yacht Club

DEC Appl. No. 80-88-0210

Permit Minimum Depth

DEC Expiration Date 6/28/88

Permit Bottom Elevation 237.5

DEC Permit Date 10/31/89

Disposal

COE Appl. No. 88-810-3

Upland at abandoned sand pit

COE Permit Date 4/11/88

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Brockport Yacht Club dredged channel and marina basin during 1999-2000.

- Published Sources**
- Monroe County Waterfront Recreation Opportunities Study (1990)
 - NYS DEC/Sea Grant Marina Guide (1997)
 - Sandy Creek Marina DEIS, NYS DEC as Lead Agency, 1994

Channel/Water Body Designation **Braddock Bay**

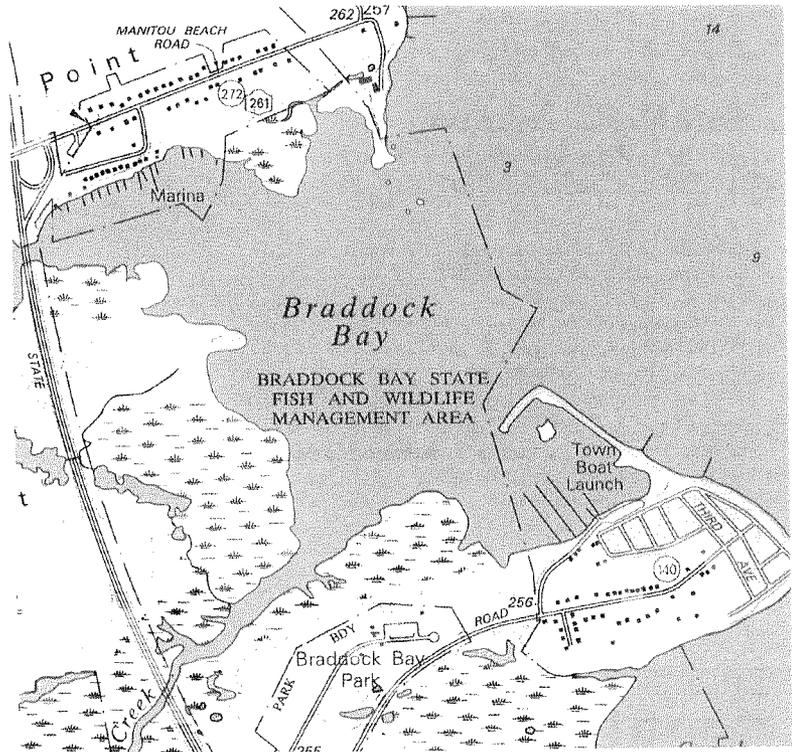
Latitude 43-18-42
Longitude 77-43-00
County Monroe
Town, City or Village Town of Greece

Total Slips 490

Total Launch Lanes 6

Type of Use

- Recreational Boating
- Lake fishing access



Maintained Joint Public/Private

By

Town of Greece/Braddock Bay
Marina



Notes on Use

- Small - Medium vessels only
- Sailboat use ~18%
- Clean Vessel Study air photo count = 159

Critical Desired Depth 4 ft

Critical Desired Bottom Elevation 242.4 ft

Quantity (cu yd) 9,000 ±

Anticipated Frequency annually

Sediment Condition

Testing Date 3/14/96 & 5/90

- sand, trace of silt/clay
- Grain size analysis (1996) indicates 99.7% sand, 0.3% fines
- Six samples in 1990 indicate 89-97% sand, 0-7.6% gravel, 1.8-3.7% fines

Sediment Quality

- apparently clean based upon grain size analysis and source

Federal Navigation Project No

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee

DEC Appl. No. 8-2628-00121/00001

Permit Minimum Depth

DEC Expiration Date 6/27/97

Permit Bottom Elevation 241.9

DEC Permit Date 10/31/2002

COE Appl. No. 97-985-0045(0)

Disposal

COE Permit Date 8/5/97

beach nourishment - adjacent beach area

COE Expiration Date 8/5/2002

NYS Designated Significant Habitat? Yes

Notes

- Town received grant from NYS and purchased an 8 inch Mudcat, cutter head suction dredge.
- Dredging with this equipment performed by the Braddock Bay Marina under contract to the Town.
- Dredging of permitted 8,000 cu yd budgeted by the Town as utilizing 400 hours over an 8 week period at a total cost of \$70,000 This implies a production rate of 20 cu yd per hour (or 200 cu yd per day) and a unit cost of \$8.75 per cu yd excluding all equipment costs.
- Dredging with landside dewatering conducted in 1999.

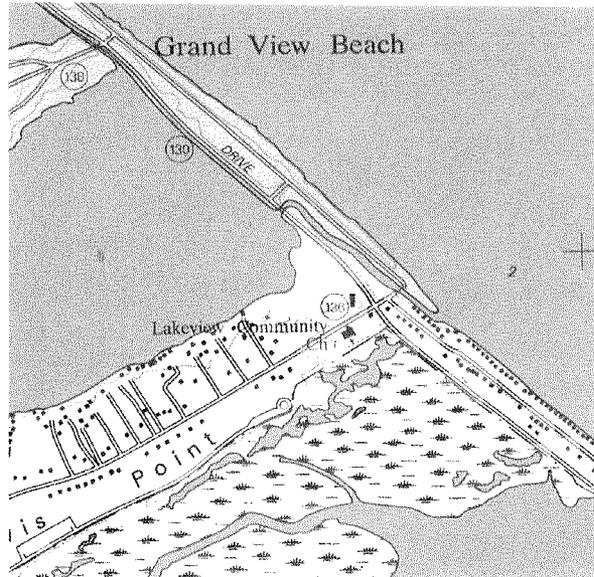
Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Long Pond Outlet**

Latitude 43-17-30
Longitude 77-40-30
County Monroe
Town, City or Village Town of Greece

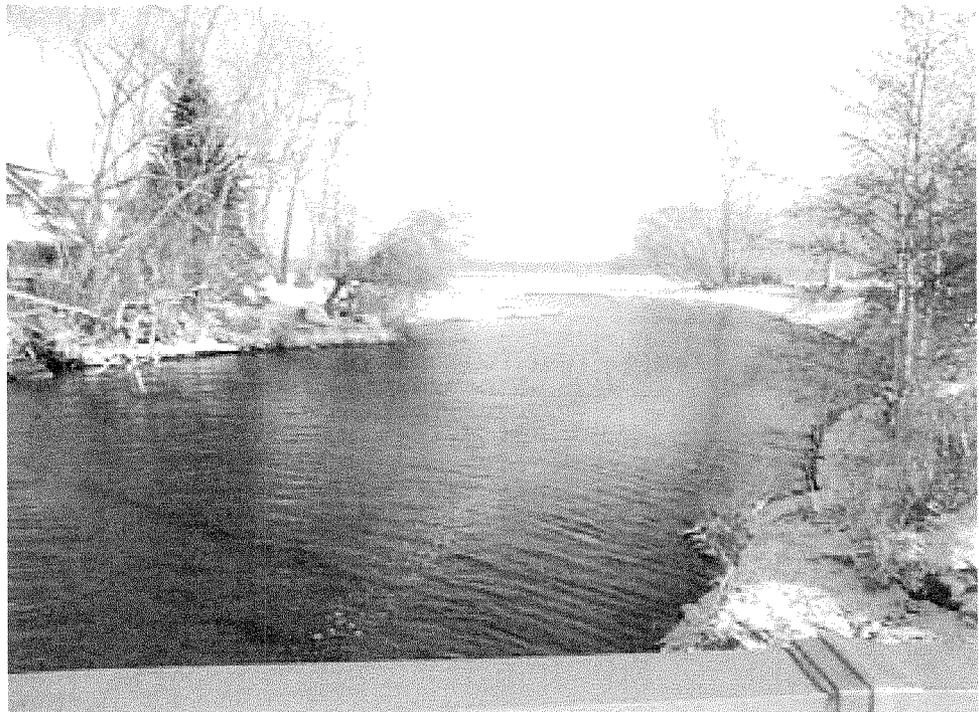
Total Slips 20
Total Launch Lanes 1

Type of Use
- Small power boats for recreation and lake access



Maintained Private

By
Long Pond Marina (proposed dredging)



Notes on Use

- Recreational boating
- Lake access for small (< 20 ft) power boats
- Many private docks ring Long Pond

Critical Desired Depth 3 ft

Critical Desired Bottom Elevation

Quantity (cu yd) 172 cu yd

Anticipated Frequency

Sediment Condition

Testing Date 3/14/96

- Sands from littoral drift along lake
- Classed as Sand, trace of gravel, trace of silt/clay
- Grain size analysis indicates 3.9% gravel, 95.9% sand, 0.2% fines

Sediment Quality

- Assumed clean by source and physical character

Federal Navigation Project No

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Sandy Pond Marina

DEC Appl. No. 8-2628-00324/00001-0

Permit Minimum Depth 3 ft

DEC Expiration Date Not clear if issued.

Permit Bottom Elevation

DEC Permit Date -

Disposal

COE Appl. No. 95-483-13

Above OHW on adjacent beaches

COE Permit Date 7/5/95

COE Expiration Date

NYS Designated Significant Habitat? No

Notes

- Dredging permitted under Regional Permit No. 81-000-1 from ACE.
- Drawings indicate dredging needed for an approximately 31 ft x 50 ft area where the channel turns northeast and enters the Lake.
- No record that the DEC permit was ever issued or that the dredging was ever performed.

Published Sources

Channel/Water Body Designation **Genesee River**

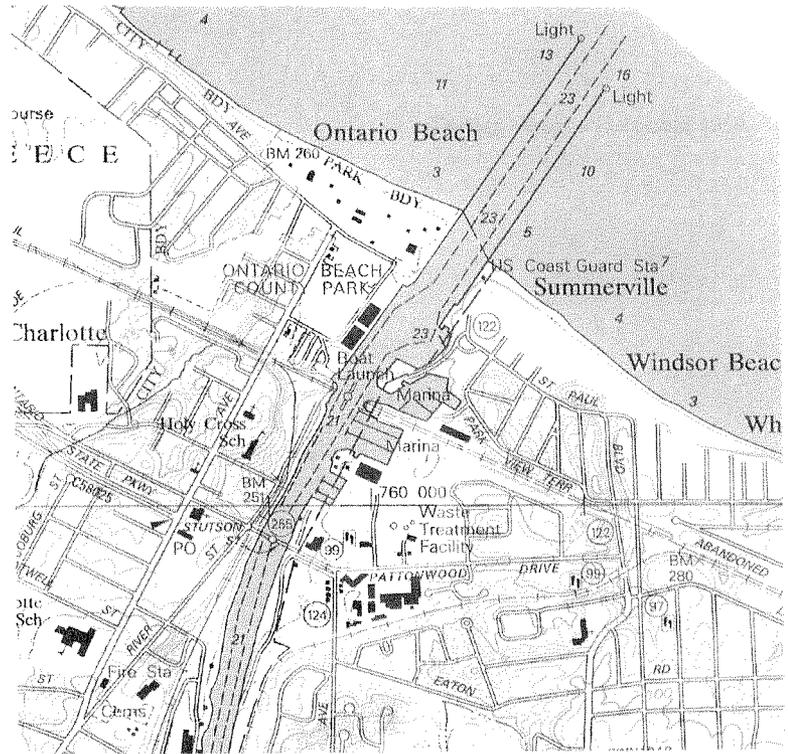
Latitude 43.2556
Longitude 77.6058
County Monroe
Town, City or Village City of Rochester

Total Slips 1034

Total Launch Lanes 7

Type of Use

- Recreational Boating
- Lake fishing access
- Limited commercial port



Maintained Public

By
Army Corps of Engineers



Notes on Use

- Small, Medium & Large Vessels
- Sailboat use ~48%, including large sailboats
- Clean Vessel Study air photo count = 711

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd) 150,000

Anticipated Frequency every two years on average

Sediment Condition

- Silt with some sand and organics

Testing Date December 1994

Sediment Quality

- Some metals and nutrients

Federal Navigation Project Yes

Construction Completed

Federal Project Minimum Depth 21 ft

Previously Permitted Dredging Current Dredging in 1999

Permittee

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- The Genesee River Harbor is maintained periodically by the Army Corps of Engineers at a depth suited for the commercial traffic utilizing the port. These depths are far in excess of those necessary for recreational vessel use and no additional dredging of the channel is needed for recreational use.

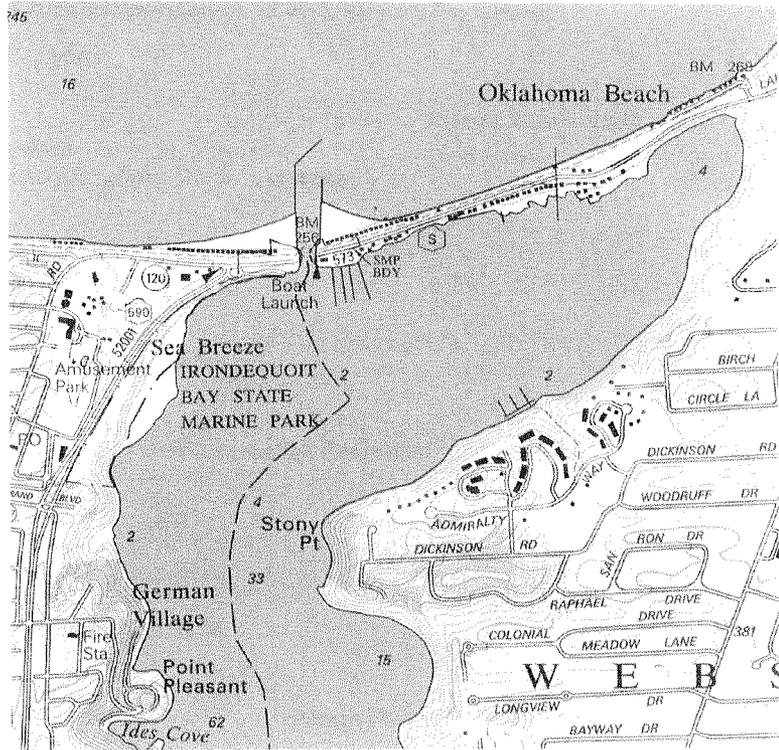
- Genesee River is being dredged by crane/barge during June 1999. Open lake disposal is being utilized. Expected to remove a total of up to 300,000 cubic yards.

Published Sources

- NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Irondequoit Bay**

Latitude 43.23
 Longitude -77.53
 County Monroe
 Town, City or Village Towns of Irondequoit and Webster
 Total Slips 747
 Total Launch Lanes 5
 Type of Use
 - Recreational boating
 - Lake fishing access



Maintained Public

By
 Army Corps of Engineers



Notes on Use

- Small, medium & large vessels
- Sailboat use ~18%, including large sailboats
- Clean Vessel Study air photo count = 886
- Sea Grant Guide left out the Bounty Harbor and Rod and Gun Club - its slip count = 634, Use Monroe County WROS count instead

Critical Desired Depth 8 ft

Critical Desired Bottom Elevation 236.1 ft

Quantity (cu yd) 10,000-15,000 from entrance channel, 3,000-5,000 from Bay channel

Anticipated Frequency est. at every 3 - 5 years

Sediment Condition

Testing Date 1990

- Channel sediments are sands from littoral drift along lake shore
- Bay channel sediments are sand, silts and organics in various percentages. More sand to the north and less to the south in Bay.

Sediment Quality

- Entrance channel unpolluted and unrestricted for open lake disposal
- Bay channel - low to moderately polluted silts, clays and sands
- Sediments from both stated to be physically compatible for beach nourishment uses

Federal Navigation Project Yes

Construction Completed 1986

Federal Project Minimum Depth 8 ft

Previously Permitted Dredging

Permittee US Army Corps of Engineers O & M

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

Littoral discharge to east of inlet and open lake disposal

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Maintenance dredging of access channel and main Bay channel have been done by the ACE. Originally done as part of the project construction in 1985-86, again in 1988 (5,500 cu yd), in 1993 (10k-15k from channel and 3k-5k in Bay channel) and in 2000.
- Extensive physical and chemical analyses of sediments performed.
- Other Bay dredging consists of that for the Stoney Point docking facility and access channel in 1993 (12.5K cu yd), and the Bounty Harbor access channel and docking area in 1988 (7K cu yd).

- Published Sources**
- NYS DEC/Sea Grant Marina Guide (1997)
 - Monroe County Waterfront Recreation Opportunities Study (1990)
 - US ACE- Phase I Design and EIS - 1979-82
 - US ACE - FONSI and EA for Maintenance Dredging, Oct. 1992

Channel/Water Body Designation **Bear Creek Harbor**

Latitude 43-16-42

Longitude 77-16-30

County Wayne

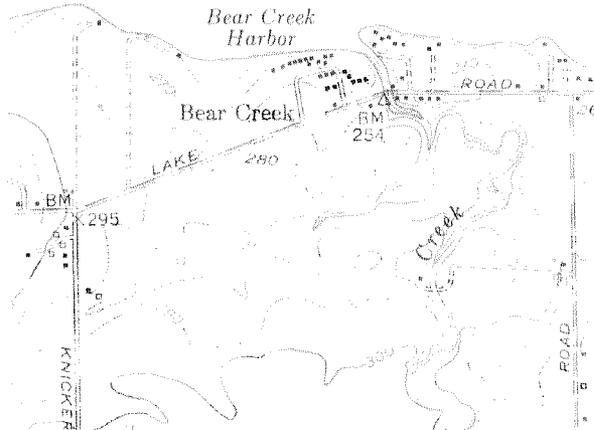
Town, City or Village Town of Ontario

Total Slips 0

Total Launch Lanes 3

Type of Use

- Recreational boating
- Lake fishing access



Maintained Joint Public/Private

By
RG&E and Town of Ontario



Notes on Use

- Boat launch owned and operated by the Town of Ontario for residents' use.
- No trailer parking at the launch. Parking available at Town Highway facility to the west on Lake Road
- Small car-top launch also present

Critical Desired Depth 8 ft for RG&E

Critical Desired Bottom Elevation 241 - 241.75

Quantity (cu yd) ~ 6,000 cu yd

Anticipated Frequency every 10 years

Sediment Condition

Testing Date 1993

- Brown sand, some gravel, little silt by grain size analysis.
- Analysis indicates 26.4% gravel, 62.4% sand, 11.2% fines

Sediment Quality

- Assumed clean by grain size analysis and source.
- Radionuclide testing done by State during dredging in 1995

Federal Navigation Project No

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee RG&E and Town of Ontario

DEC Appl. No. 8-5434-00042/03 & 01

Permit Minimum Depth 8 ft

DEC Expiration Date 8/29/95

Permit Bottom Elevation 241.0 - 241.75 ft

DEC Permit Date 10/31/96

Disposal

COE Appl. No.

- On-site dewater and stockpile and then to Town Park with some used on-site for revetment repairs.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? No

Notes

- Last dredged to 8 feet to launch in 1995-1996.
- Inlet protected by armor stone on both the east and west sides.
- 1995-96 dredging done by CP Ward utilizing a by excavator on barge.
- Depths appear adequate. In excess of three feet available at the end of the launch on 12/9/98 with lake at 243.8 feet. Depths and potential for shoals further out in the channel or in the lake entry zone not possible to ascertain.
- Private docks located across channel, on the east side, cannot be used in their present location at the current lake elevation. Looks like they need an additional ~2.0 feet.

Published Sources

Channel/Water Body Designation **Pultneyville**

Latitude 43-16-54

Longitude 77-11-6

County Wayne

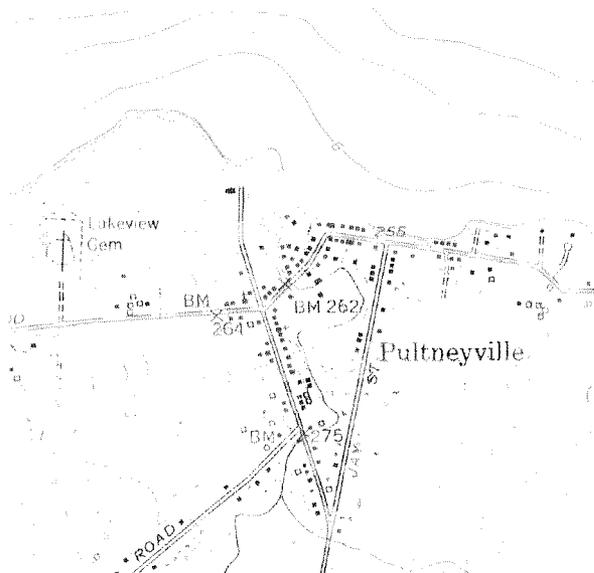
Town, City or Village Village of Pultneyville

Total Slips 170

Total Launch Lanes 1

Type of Use

- Recreational boating
- Lake fishing access
- Sailing



Maintained Private

By
Pultneyville Yacht Club



Notes on Use

- Primarily small & medium vessels
- Fishing charter boats up to ~28 ft.
- Sailboat use ~57%
- Clean Vessel Study air photo count = 259
- DEC/Sea Grant lists only 12 slips - Pultneyville Marina only, no number given for the Pultneyville YC
- Channel and harbor maintained by the Pultneyville Yacht Club

Critical Desired Depth 5 ft

Critical Desired Bottom Elevation 237.0

Quantity (cu yd) 500-800 bi-annually for main channel and common harbor areas

Anticipated Frequency bi-annually

Sediment Condition

Testing Date

- Reportedly sands from littoral drift in main access channel.
- More silts and fines in material further upstream near the marina.

Sediment Quality

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Cornell Trust for the Pultneyville Yacht Club

DEC Appl. No. 8-5446-00017/00001

Permit Minimum Depth 5 ft

DEC Expiration Date 10/1/91

Permit Bottom Elevation 237.0

DEC Permit Date 10/1/98

COE Appl. No. 93-487-8 (NWP No. 35)

Disposal

COE Permit Date 2/17/93

- Upland at on-site, abandoned gravel/sand pit.

COE Expiration Date

NYS Designated Significant Habitat? No

Notes

- Main channel maintained as needed by the Pultneyville Yacht Club
- Yacht Club reports need approximately bi-annually
- Main channel sediment reportedly sandy; interior channels more silty and fine
- One private marina, Pultneyville Marina, has 12 slips and a single lane launch. He harbors power boats up to 28 ft drawing up to 3.5 feet of depth including fishing charters
- Channel depths in the interior creek channel near the docks was reported to be inadequate this fall from approximately 10/1/98. Main channel depth reported to be inadequate on 12/9/98 to support vessels normally using the harbor during the summer.

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Fairbanks Point/Hughes Marina**

Latitude

Longitude

County Wayne

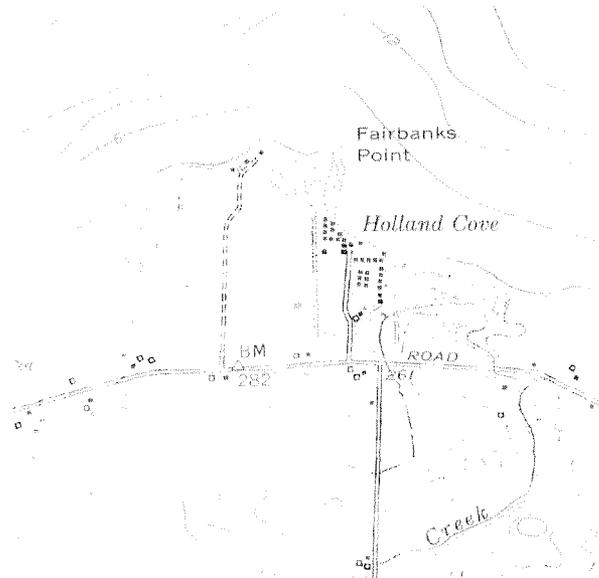
Town, City or Village Town of Williamson

Total Slips 37

Total Launch Lanes 1

Type of Use

- Small power boats



Maintained Private

By

Hughes Marina

Notes on Use

- Single user - Hughes Marina and Campground
AKA Paradise Cove

Critical Desired Depth 6 ft

Critical Desired Bottom Elevation

Quantity (cu yd) 200 ± for channel + undefined for dock area

Anticipated Frequency

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project No

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Hughes Marina

DEC Appl. No. 8-5445-00013-00001

Permit Minimum Depth 6 ft

DEC Expiration Date 6/16/97

Permit Bottom Elevation

DEC Permit Date 10/31/99

Disposal

COE Appl. No.

On-site use for fill and repairs

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat?

Notes

- This inlet from the lake only serves the Hughes Marina and campground.
- Existing DEC dredging permit dates originally back to the late 1980's (1986?) and has been annually renewed without the work ever having been done. Latest correspondence indicates that they are trying to barter a season campsite and slip in exchange for the dredging work.

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)

Channel/Water Body Designation **Sodus Bay**

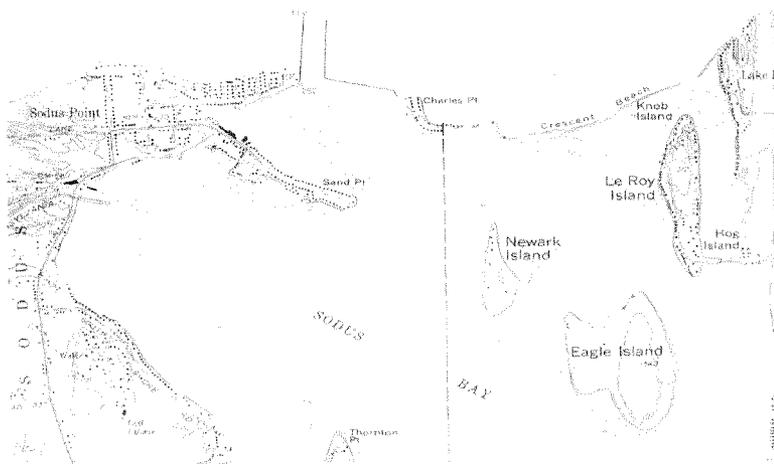
Latitude 43.27
Longitude 76.97
County Wayne
Town, City or Village Sodus Point (V), Sodus and Huron (T)

Total Slips 1432

Total Launch Lanes 11

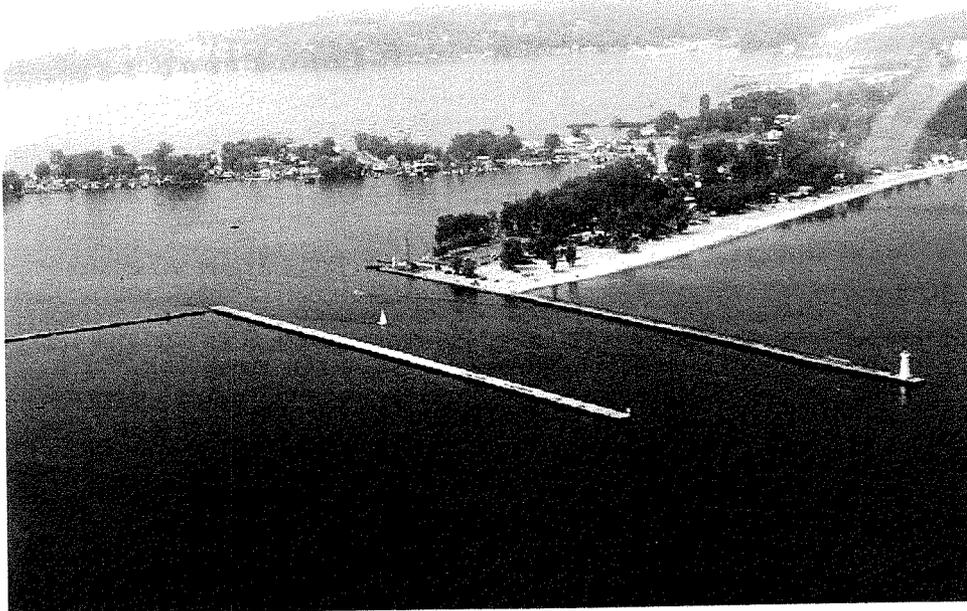
Type of Use

- Recreational boating
- Lake access for fishing



Maintained None

By



Notes on Use

- Small, medium & large vessels
- Large sailboats
- Sailboat use ~20%
- Clean Vessel Study air photo count = 1082
- Monroe County WROS lists 900 slips

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd)

Anticipated Frequency

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project Yes

Construction Completed

Federal Project Minimum Depth 20 ft

**Previously Permitted Dredging
Permittee**

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Conflicting opinions regarding the adequacy of existing depths in the main access channel to the lake to support the current use. Depth currently reported at approx. 11 feet.
- USACE reportedly no longer maintains the main channel since commercial navigation has ceased.
- Other areas reportedly began having problems operating this fall after approximately 10/1/98; primarily handling larger vessels. Marinas reported to need at least 1.5 feet additional water, over the current level of 243.8 ft, to even minimally operate.
- Dredging needs include the docking areas at the point and in creeks and channels serving individual marinas and cottages
- Spot measurements on 12/9/98 (LL=243.8 ft.) indicate depths of 12 to 18 inches at the commercial marinas on the north side of the Point over a soft, muck bottom.

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **East Bay**

Latitude 43-17-30

Longitude 76-93-30

County Wayne

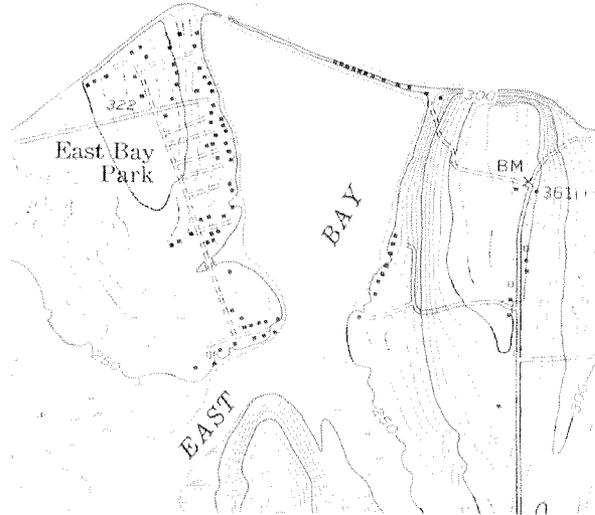
Town, City or Village Town of Huron

Total Slips

Total Launch Lanes 2

Type of Use

- recreational boating
- fishing
- lake access



Maintained Private

By

Wayne East Bay Association



Notes on Use

- used only for small crafts (est. < 22 ft)

Critical Desired Depth 4 ft

Critical Desired Bottom Elevation

Quantity (cu yd) ~120

Anticipated Frequency annually

Sediment Condition

- Reported as stone, coarse gravel and cobbles

Testing Date

Sediment Quality

- Assumed clean by physical characteristics and apparent source.

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Wayne East Bay Improvement Associations

DEC Appl. No. 8-5426-0028/00002

Permit Minimum Depth 4 ft

DEC Expiration Date 3/9/98

Permit Bottom Elevation

DEC Permit Date 2/28/2003

COE Appl. No. 93-995-20

Disposal

COE Permit Date 1/27/94

stored next to channel - redeposited in fall

COE Expiration Date

NYS Designated Significant Habitat?

Notes

- Existing permit indicates channel is opened seasonally only - cleared out in May and filled back in September
- Channel dimensions listed as 10-20 ft wide by 20-60 ft long with 4 ft minimum depth
- Dredging privately done by the Wayne County East Bay Association
- Installation of steel crib jetty filled with dredge spoil permitted in 1986 (DEC No. 80-85-0649)

Published Sources

Channel/Water Body Designation **Port Bay**

Latitude

Longitude

County Wayne

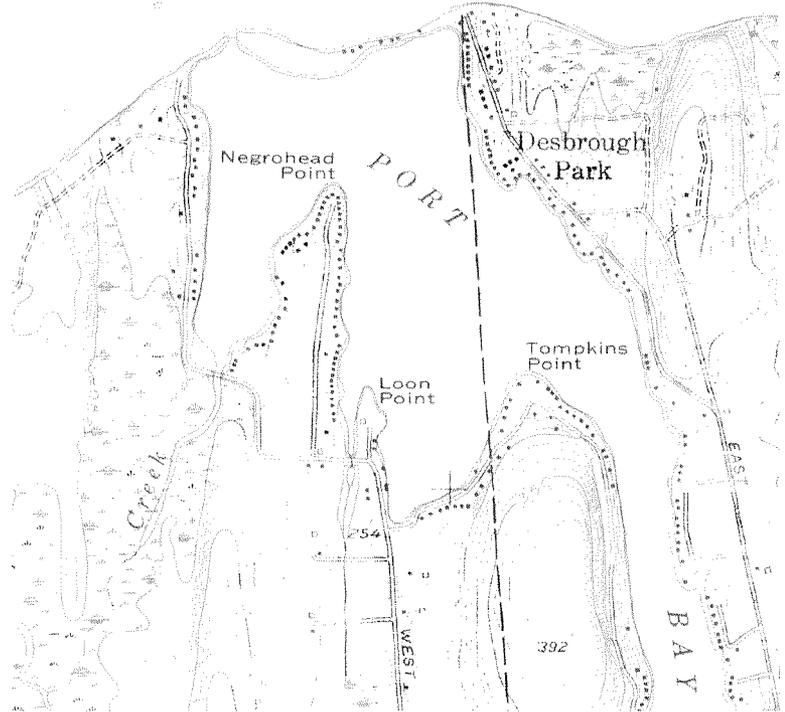
Town, City or Village Towns of Huron and Wolcott

Total Slips 42

Total Launch Lanes 2

Type of Use

- Recreational boating
- Fishing access to Lake
- Little sailing, mostly transient



Maintained Private

By

Port Bay Improvement Association



Notes on Use

- Pier One Marina listed at 12 slips in Monroe County WROS - - Port Bay Marina listed in DEC/Sea Grant guide at 30 slips
- Site visit confirms Pier One (West side) has 12 slips. Docks power vessels up to ~28-30 ft, including several fishing charters
- Port Bay marina located on the east side in a reportedly much more shallow area. ~30 slips plus a concrete launch
- Relatively new DEC launch located on the southwest shoreline with 2 concrete lanes. Depths at the base of the launch at ~2.0 ft with LL at 243.8 on 12/10/98

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd) ~1,000

Anticipated Frequency annually

Sediment Condition

Testing Date

- Reported to be coarse sand, gravel and loose stone with occasional pieces up to the size of basketballs

Sediment Quality

- Assumed clean by physical characteristics and source.

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes

Permittee Port Bay Improvement Association

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No. 96-740-0001

- Stockpiled adjacent to outlet

COE Permit Date 1996

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Annual dredging done with a drag line on a crane which is stored at the outlet.
- Dredged material apparently stockpiled adjacent to the outlet on the west side.

Published Sources

- NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Blind Sodus Bay**

Latitude

Longitude

County Wayne

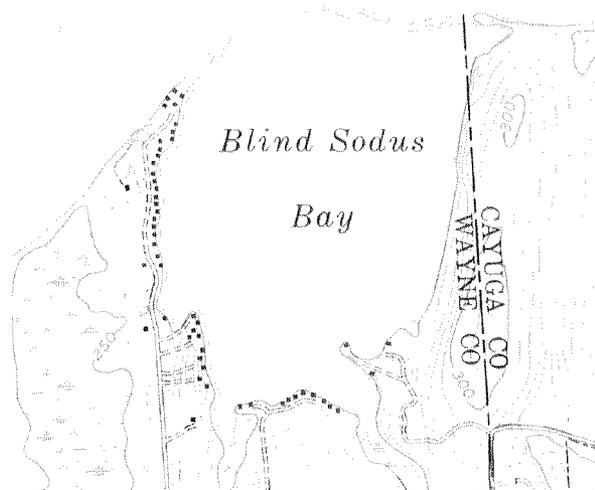
Town, City or Village Town of Wolcott

Total Slips 60

Total Launch Lanes 1

Type of Use

- recreational boating
- fishing
- lake access



Maintained Private

By

Blind Sodus Bay Improvement Association



Notes on Use

- Only 1 marina, Holiday Harbor Resort, present
- Additional private cottages

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd) 225±

Anticipated Frequency Annual

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Yes
Permittee

DEC Appl. No. 8-5448-00034/00001

Permit Minimum Depth 4 ft.

DEC Expiration Date 12/6/96

Permit Bottom Elevation

DEC Permit Date 5/31/2001

Disposal

COE Appl. No.

- Stockpiled adjacent to outlet on east and then taken for fill to trailer park/campground on east side of barrier bar.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat?

Notes

- Dredging to open channel usually done in the last week of May with further maintenance dredging done just before July 4th and Labor Day
- Application materials indicate that seasonal dredging of this channel has been done for decades.

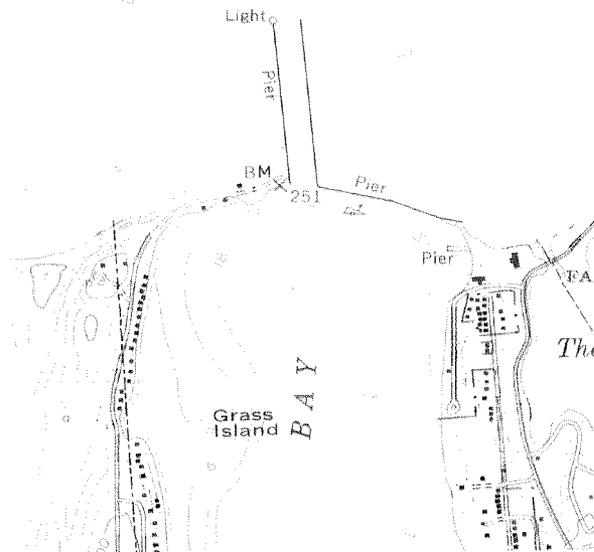
Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Little Sodus Bay**

Latitude 43.34
Longitude -76.71
County Cayuga
Town, City or Village Town of Sterling, Village of Fairhaven

Total Slips 335
Total Launch Lanes 2

- Type of Use**
- Recreational boating
 - Lake access for fishing
 - Used by large power and sailboats



Maintained None

By



Notes on Use

- Small, medium & large vessels reported up to 40 ft.
- Sailboat use ~26%
- Clean Vessel Study air photo count = 228

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd)

Anticipated Frequency

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project Yes

Construction Completed 1906

Federal Project Minimum Depth 15.5 ft

Previously Permitted Dredging

Permittee

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Review of Army Corps of Engineer files indicates that the outlet jetties and channel were completed in 1906.
- No record of any previous or recent (last ten years) dredging in the outlet channel.
- Was a proposal and permit application to dredge the Grass Island area (southwest of inlet) in 1994 which was denied.

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Monroe County Waterfront Recreation Opportunities Study (1990)

Channel/Water Body Designation **Oswego Harbor**

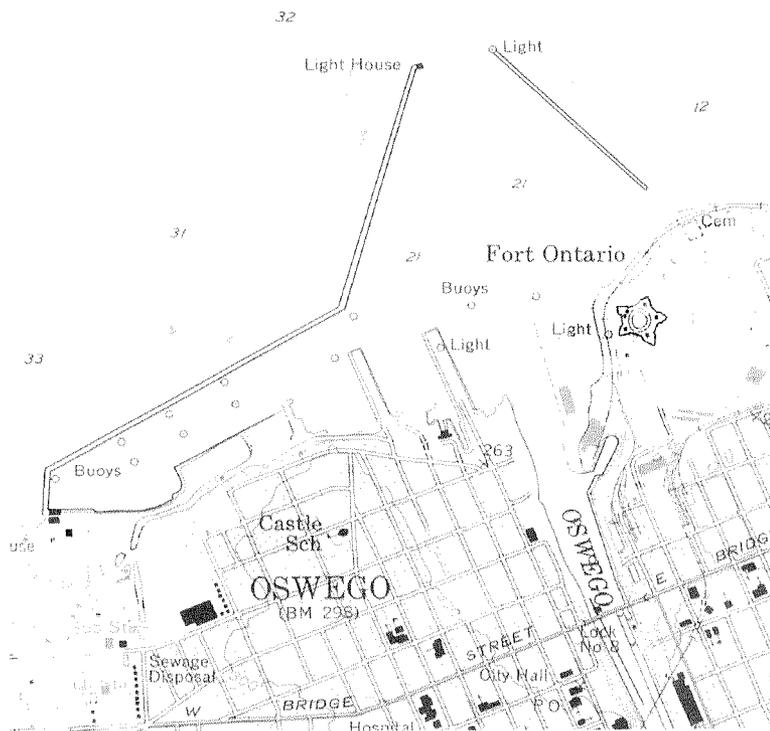
Latitude 43.47
Longitude 76.51
County Oswego
Town, City or Village City of Oswego

Total Slips 536

Total Launch Lanes 6

Type of Use

- Small, medium and large recreational vessels.
- Significant charter fishing, launch and sailboat use
- Some commercial shipping utilizing Port of Oswego



Maintained Public

By
Army Corps of Engineers



Notes on Use

- NYS DEC/Sea Grant Marina Guide (1997)
- Clean Vessel Study air photo count = 206

Critical Desired Depth 21 ft

Critical Desired Bottom Elevation

Quantity (cu yd) 50,000

Anticipated Frequency every two years

Sediment Condition

Testing Date January 1996

- Clays, silts and sands depending upon location.

Sediment Quality

- Generally clean with some organics and nutrients.

Federal Navigation Project Yes

Construction Completed

Federal Project Minimum Depth 21 ft

Previously Permitted Dredging

Permittee

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Proposed for dredging in 1999 with the planned removal of 75,000 cu yd with disposal at the open lake disposal site.
- Entrance and access channels maintained by ACE to depths necessary for commercial shipping use. Additional dredging in support of recreational vessel use not necessary.

Published Sources

Channel/Water Body Designation

Mexico Point/Little Salmon River

Latitude 43-31-30

Longitude 76-15-30

County Oswego

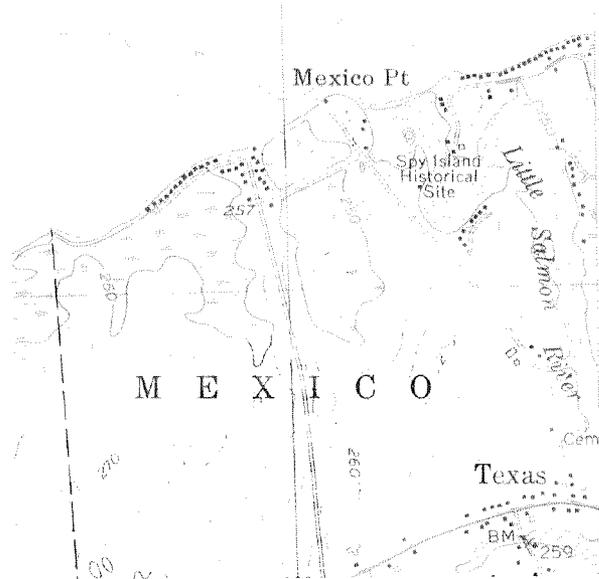
Town, City or Village Town of Mexico

Total Slips 249

Total Launch Lanes 6

Type of Use

- Recreational Boating
- Lake Access for Fishing
- Active Charter Fishing Area



Maintained Public

By

NYS Office of Parks and Recreation
(?)



Notes on Use

- NYS DEC/Sea Grant Marina Guide (1997)
- Note that Dowie Dale Beach Campground has separate entry to Lake and supports 83 slips and a launch.
- Clean Vessel Study air photo count = 167
- Some large power boats (up to ~32 ft) are docked on river including many charters

Critical Desired Depth

Critical Desired Bottom Elevation

Quantity (cu yd)

Anticipated Frequency

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging

Permittee

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Channel depths appear adequate as of 12/4/98. However, statements from marina operator in area indicates that NYS launch and his operation would be hampered by current water levels (243.8) in that the larger vessels could not be launched, hauled or docked in existing facilities as well as privately owned channels and dredged private residence docking areas.
- There are a number of permits dating back to the early 1970's by the NYS Office of Parks and Recreation for various shore protection, bank stabilization and channel maintenance dredging. This includes a March 1979 to dredge the outlet area to a depth of approximately 241.3 (IGLD'85). This was apparently before the major improvements at the outlet channel and the expansion of the State launch.
- No record of any additional maintenance dredging of outlet channel after the 1979 permit.

Published Sources

Channel/Water Body Designation **Salmon River/Port Ontario**

Latitude 43-34-6

Longitude 76-11-36

County Oswego

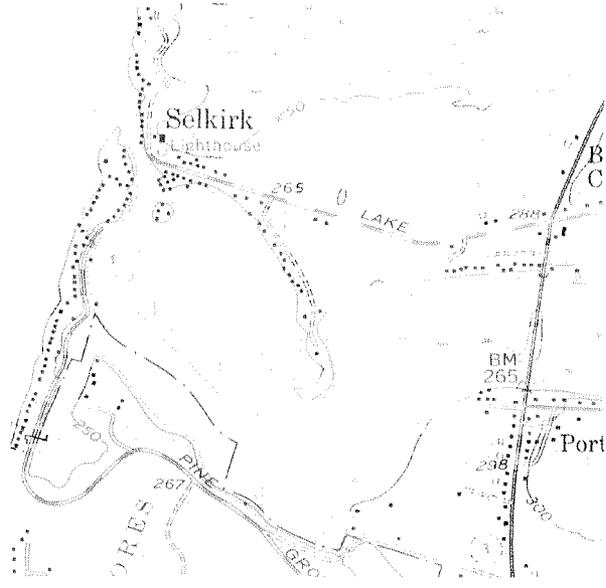
Town, City or Village Town of Richland

Total Slips 58

Total Launch Lanes 1

Type of Use

- Recreational boating
- Fishing access to Lake including several charter boats in the 32 foot size range
- State boat launch located to the south as part of the Selkirk Shores State Park



Maintained None

By



Notes on Use

- Clean Vessel Study air photo count = 54

Critical Desired Depth 8 ft

Critical Desired Bottom Elevation

Quantity (cu yd)

Anticipated Frequency

Sediment Condition

Testing Date

Sediment Quality

Federal Navigation Project Yes

Construction Completed 1987

Federal Project Minimum Depth 8 ft

Previously Permitted Dredging During Project Construction

Permittee

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date -

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- No records found of any maintenance dredging of navigation channel to lake.
- Several permit applications found for docks and access dredging further upstream near Route 3 and Port Ontario.

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)

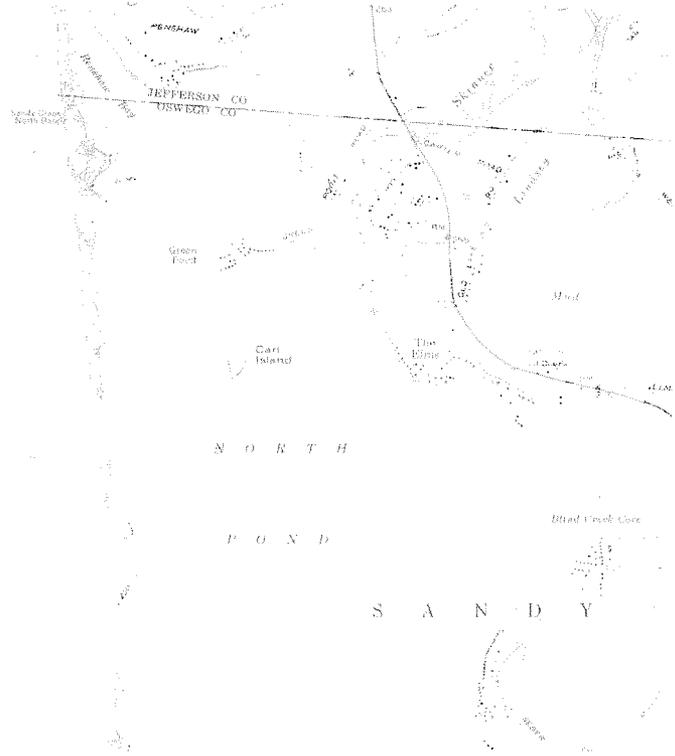
Channel/Water Body Designation **Sandy Pond Inlet**

Latitude 43-39-6
Longitude 76-11-48
County Oswego
Town, City or Village Town of Sandy Creek

Total Slips 358
Total Launch Lanes 9

Type of Use

- Seasonal recreational boating
- Lake access for fishing



Maintained None

By



Notes on Use

- Primarily small to medium size vessels
- Sailboat use limited to occasional, small vessels and those with retractable keels.
- Clean Vessel Study air photo count = 291

Critical Desired Depth
Critical Desired Bottom Elevation
Quantity (cu yd)
Anticipated Frequency

Sediment Condition
- Generally sand from barrier bar, higher in silt for internal channels up creeks feeding the ponds

Testing Date

Sediment Quality

Federal Navigation Project

Construction Completed

Federal Project Minimum Depth

Previously Permitted Dredging Current Permit in force.

Permittee Oswego County

DEC Appl. No.

Permit Minimum Depth

DEC Expiration Date

Permit Bottom Elevation

DEC Permit Date

Disposal

COE Appl. No.

COE Permit Date

COE Expiration Date

NYS Designated Significant Habitat? Yes

Notes

- Inlet channel from Lake Ontario has shoals which form on both the Lake and Pond side. These shoals are sand and are due to the dynamic nature of the barrier bar processes and sand transport through the channel. Shoals had bottom elevation of approximately 243.0 as of 12/4/98.
- Outlet areas of Little Sandy Creek, Blind Creek Cove/Creek, and Lindsey/Skinner Creeks are all shoaled in with sand. The main channels in these creeks appear adequate in depth beyond the entry areas to the Pond. Bottom elevations in these areas are approximately 241.8 in the Lindsey/Skinner and Blind Creek Cove areas and approximately 243.0 near Little Sandy Creek outlet, all as of 12/4/98.
- Most upstream areas around the Pond and the creeks leading in have private docks and bulkheads fronting on small, generally manmade, channels. These channels were observed dry or nearly dry as of 12/4/98 indicating a bottom elevation of approximately 244.0 or more.
- Corps evaluated this as a project but decided not to pursue it. Believed that Port Ontario was constructed instead.
- Petition submitted to ACE in 1988 to have outlet dredged

Published Sources - NYS DEC/Sea Grant Marina Guide (1997)
- Sandy Pond Resource Management Study (1989) - slips = 315

Products

IMS dredges are hands down the most productive and reliable transportable hydraulic dredge systems in the industry. Not only are they easily transportable, but they are easy to maintain and operate. We take pride in being the dredging industry's manufacturing specialists of small dredges. It is our goal to relentlessly pursue new innovations to make our customers job easier.

Our product line consists of transportable dredges, booster pumps, and accessory equipment.

The Models 4010 and 5012 are proven values in the industry and have been used in a wide variety of applications with success. With the introduction of our Model 6008 we now dominate the transportable dredge industry. The 6008 pumps more solids and longer distances than any other dredge in its class. The success of the 6008 can be attributed to its cast white iron GIW pump. Like the 4010 and the 5012, the 6008 is highly mobile with the patented STARWHEEL DRIVE® self-propulsion system.

For that hard-to-reach spoils area, IMS supplies a full line of booster pump packages to meet the most demanding pumping conditions. We offer 5 different booster pump packages which utilize either a GIW pump or a Gorman Rup pump. These packages are as follows: GR-174, GIW-174, GIW-250, GIW-330, and the GIW-425.

IMS is the proven choice in the industry and a wise investment. We have many repeat customers who rely on our products on a daily basis. When you buy an IMS product, you don't just become a customer, you become a partner.

Dredge Systems:

VERSI-DREDGE [®] MODELS						
General Specifications	4010		5012		6008	
	cub. ft.		cub. ft.		cub. ft.	
Pump Inlet Diameter	9.75 in	247.7mm	9.75 in	247.7 mm	10 in	254 mm
Pump Discharge Diameter	10 in	254 mm	12 in	305 mm	8 in	203 mm
Spherical Solids (passage)	6 in	152.4 mm	6 in	152.4 mm	4.3 in	109 mm
Discharge Volume (water-rated)	4000 gpm @ 85 ft TDH	252 lps @ 25.9 M TDH	5000 gpm @ 85ft TDH	315 lps @ 25.9 M TDH	2500 gpm @ 180 ft TDH	158 lps @ 54 M TDH
Maximum TDH	100 ft	30.5 M	100 ft	30.5M	210 ft	70 M
Power	174 Hp	130 Kw	250 Hp	186Kw	300 Hp	223.7 Kw
Fuel Capacity	175 gal	662 L	220 gal	832L	220 gal	832 L
Height	10'4"	3,150 M	10'4"	3,150M	10'4"	3.3 M
Width	9'4"	2,845 M	10'4"	3,150M	11'0"	3.4 M
Overall Length	37'4"	11,380 M	41'6"	12,650M	42'11"	13.1 M
Weight (less fuel)	17,000 lbs	7,710 kg	22,000lbs	9,980kg	29,500 lbs	13,380 kg
Total Displacement	20,500 lbs	9,299 kg	30,400lbs	13,789kg	37,850 lbs	17,169 kg
Operating Draft	20 in	508 mm	20in	508mm	28 in	717.9 mm

Working Depth	20 ft	9 M	22ft	6.7 M	22 ft	6.7 M
Travel Speed	0-100 fpm	0-30.5 M/m	0-100fpm	0-30.5M/m	0-100 fpm	0-30.5 M/m

Booster Pump Systems:

Model Number	GR-174	GIW-174	GIW-250	GIW-330	GIW-425
Pump Size	10 x 10	8 x 10 x 24	8 x 10 x 24	8 x 10 x 24	8 x 12 x 27
Maximum Flow	3,250 gpm	4,500 gpm	5,000 gpm	6,500 gpm	12,000 gpm
Maximum TDH	120 ft	240 ft	280 ft	340 ft	300 ft
Weight	12,000 lbs	13,000 lbs	13,000 lbs	13,500 lbs	15,500 lbs
Power	174 Hp	174Hp	260Hp	330Hp	425Hp

[REDACTED]



Mud Cat Dredges

[Mud Cat Series
370 HP Dragon
Cutterhead
Dredge](#)

[Mud Cat Auger
Dredge
MC-915 Standard](#)

[Mud Cat's History](#)

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TECHNICAL DATA AND SPECIFICATIONS

370HP Series "DRAGON" Model Specifications

Portable Dredge for any standard 10" or 12" pipeline

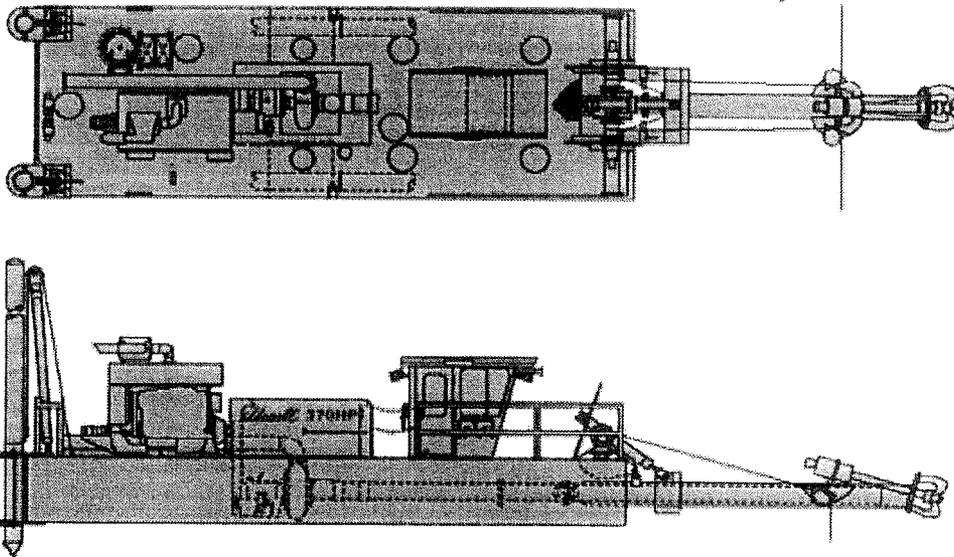
ELLICOTT DREDGES, POWER-PACKED PORTABILITY

This portable dredge represents a revolutionary breakthrough in dredge design and construction. Adaptation of the hull, ladder, and spud extensions for various digging depths added to the modular design concept of the "DRAGON" Series provides the most efficient and flexible dredging equipment on the market. Tailored to suit your company's requirements, this dredge will give the greatest return on your investment dollar.

Principal Dimensions and Particulars Specifications

Calculated Production Curve

[Download this Technical Sheet](#) (requires [Acrobat Reader](#))



Representative digging depths and dimensions for average dredging service.
Configurations for deeper digging readily available - consult Ellicott.

370HP Principal Dimensions and Particulars			
		Metric	English
GENERAL	Hull Length		10.98 m 36 ft.
	Hull Width		3.66 m 12 ft.
	Hull Depth		1.22 m 4 ft.
	Length Overall		17.53 m 57.5 ft.
	Height Overall (spuds installed and elevated)		8.88 m 29.13 ft.
	Height Overall (Spuds, spud hoists, and muffler removed)		3.2 m 10.7 ft.
	Draft - Max. with spuds and ladder raised		.81 m 2.67 ft.
	Fuel Storage Capacity		3050 L 800 gals.
	Approximate Weight - Lt. and Dry		25,396 kg 56,000 lbs.
DIGGING DEPTH	Maximum		6.10 m 20 ft.
	Minimum		0.9 m 3 ft.
CHANNEL WIDTH	Maximum @ 40'	@ Min. Digging Depth	22.25 m 73 ft.
	Swing each side CL	@ Max. Digging Depth	18.29 m 60 ft.
	Minimum @ Minimum Digging Depth (Hull Grounded)		9.3 m 30.5 ft.
PRIME MOVER	Diesel Engine CAT 3406		306 kw 410 HP
CUTTER	Shaft Power		30 kw 40 SHP
	Cutting Force		1,815 kg 4000 lbs
	Cutting Force per Linear Inch of Edge		29 kg 64 lbs.
	Cutter Speed		0 - 39 RPM
	Cutter Diameter		800 mm 31.5 in
SWING WINCHES	Shaft Power		15.4 kw 20.6 HP
	Line Pull - First Layer		3,629 kg 8000 lbs
	Line Speed - First Layer		0-22.8 m/min 0-75 ft/min
	Wire Size		12.7 mm 1/2 in
	Drum Capacity		61 m 200 ft.

OPTIONAL EQUIPMENT

Choice of cutters, pump handling equipment, air conditioning or heating, anchor booms, production measuring equipment, and pipeline components.

ELLICOTT reserves the right to modify equipment in order to provide for engineering improvements.

Specifications - "DRAGON" Model Series 370HP

HULL - One piece welded steel construction with ladder well forward. Built in fuel, hydraulic oil and ballast tanks. Hull shell plate and stiffeners designed to ABS river rules.

MAIN DREDGE PUMP UNIT - V belt driven by radiator cooled Caterpillar diesel engine with electric starter. Totally enclosed anti-friction radial and thrust bearings with impeller mounted on Acme threads. All wearing parts 500 BHN minimum chrome alloy cast iron. Choice of 10" or 12" (254 mm or 304 mm) discharge pipeline diameters.

HYDRAULIC POWER PACKAGE - Triple section hydraulic gear pump direct driven off the main engine. Hydraulic system includes three independent operating